

HAER
HI
2-PEHA,
68-

U.S. Naval Base, Pearl Harbor, Jet Engine Fuel Storage Tank
(U.S. Naval Base, Pearl Harbor, Fleet and Industrial Supply Center)
(Pearl City Fuel Annex, Tank No. 3, Structure No. S88)
Lehua Avenue, Pearl City Peninsula
Pearl Harbor
Honolulu County
Hawaii

PHOTOGRAPHS

WRITTEN HISTORICAL AND DESCRIPTIVE DATA

Historic American Engineering Record
National Park Service
Western Region
Department of the Interior
San Francisco, California 94107

HISTORIC AMERICAN ENGINEERING RECORD

U.S. Naval Base, Pearl Harbor, Jet Engine Fuel Storage Tank
(U.S. Naval Base, Pearl Harbor, Fleet and Industrial Supply Center)
(Pearl City Fuel Annex, Tank No. 3, Structure No. S88)

HAER No. HI-30

Location: Pearl City Fuel Annex on Lehua Avenue, Pearl City Peninsula
Pearl Harbor, City and County of Honolulu, Hawaii

USGS Pearl Harbor Quadrangle, Hawaii
7.5 minutes series (orthophotoquad)
Universal Transverse Mercator coordinates 4.606105.2365395

Date of Construction: 1927

Engineer: Unknown

Builder: American Bridge Company, Ambridge, PA

Present Owner: U.S. Naval Base, Pearl Harbor, Fleet and Industrial Supply
Center

Present Use: Not in use.

Significance: The U.S. Naval Base, Pearl Harbor was designated as a
National Historic Landmark in 1964; due to the crucial role it
played in the Nation's defense during the twentieth century and
the calamitous events which occurred on December 7, 1941.
Built in 1927, Tank No. 3 functioned as a part of the Pearl
Harbor Naval Base and is an Uncategorized Structure outside
the Pearl Harbor National Historic National Landmark.

Report Prepared By: Glenn Oeda, Civil Engineer
Navy Public Works Center, Pearl Harbor
Project Development Branch
Pearl Harbor, Hawaii 96860-5470

Date: February 1995

HAER
HI
J-PEHA
30-

U.S. Naval Base, Pearl Harbor, Jet Engine Fuel Storage Tank
(U.S. Naval Base, Pearl Harbor, Fleet and Industrial Supply Center)
(Pearl City Fuel Annex, Tank No. 3, Structure No. S88)

HAER No. HI-30

Page 2

I. DESCRIPTION

Tank No. 3 is a circular tank, 164 feet in diameter and 40 feet high with a nominal capacity of 150,000 barrels. The tank is constructed on a 6" oil saturated sandbed contained by a reinforced concrete ring wall. The tank has steel plates riveted with the rivet heads and lap joints being seal welded. The tank bottom is constructed from 0.25" thick welded plates and the roof consists of a double deck floating roof system. The tank bottom and shell interior has a 50 - 60 mils thick reinforced fiberglass lining. Each of the tanks at the Pearl City Fuel Annex have an approximately 10 feet high earthen berm containment that is covered with a reinforced concrete blanket.

II. ARCHITECTURAL AND ENGINEERING INFORMATION

The tanks at the Pearl City Fuel Annex are part of a complex fuel pipeline system that services the Pearl Harbor area as well as Hickam Air Force Base and Barbers Point Naval Air Station.

III. HISTORICAL INFORMATION

Tank No. 3 was originally constructed in 1927 by the American Bridge Company of Ambridge, PA as Tank No. 43 of the Upper Tank Farm. In 1944, Navy Seabees dismantled Tank No. 43 and re-erected it at the Pearl City Fuel Annex. In 1944, the original cone shaped roof was removed and a Horton floating roof was installed by the Chicago Bridge and Iron Company. Tank No. 3 was used to store fuels such as fuel oil, gasoline, aviation gasoline and JP-4 jet fuel. The tank was cleaned and gas freed in July of 1986 and subsequently taken out of service. Proposed Military Construction Project, P-167 will demolish Tanks No. 1 and 3.

IV. SOURCES

Willbros Butler Engineers, Inc., Engineering Evaluation of Tank No. 3 (S-88), dated July 15, 1991

NAVFAC P-164; Detailed Inventory of Naval Shore Facilities

U.S. Naval Base, Pearl Harbor, National Historic Landmark, Historic Preservation Plan

Gammon, Jim, Fleet and Industrial Supply Center, Fuel Department, Consultation with Glenn Oeda, 6 February 1995

U.S. Naval Base, Pearl Harbor, Jet Engine Fuel Storage Tank
(U.S. Naval Base, Pearl Harbor, Fleet and Industrial Supply Center)
(Pearl City Fuel Annex, Tank No. 3, Structure No. S88)

HAER No. HI-30

Page 3

IV. SOURCES (continued)

Plans and Drawings

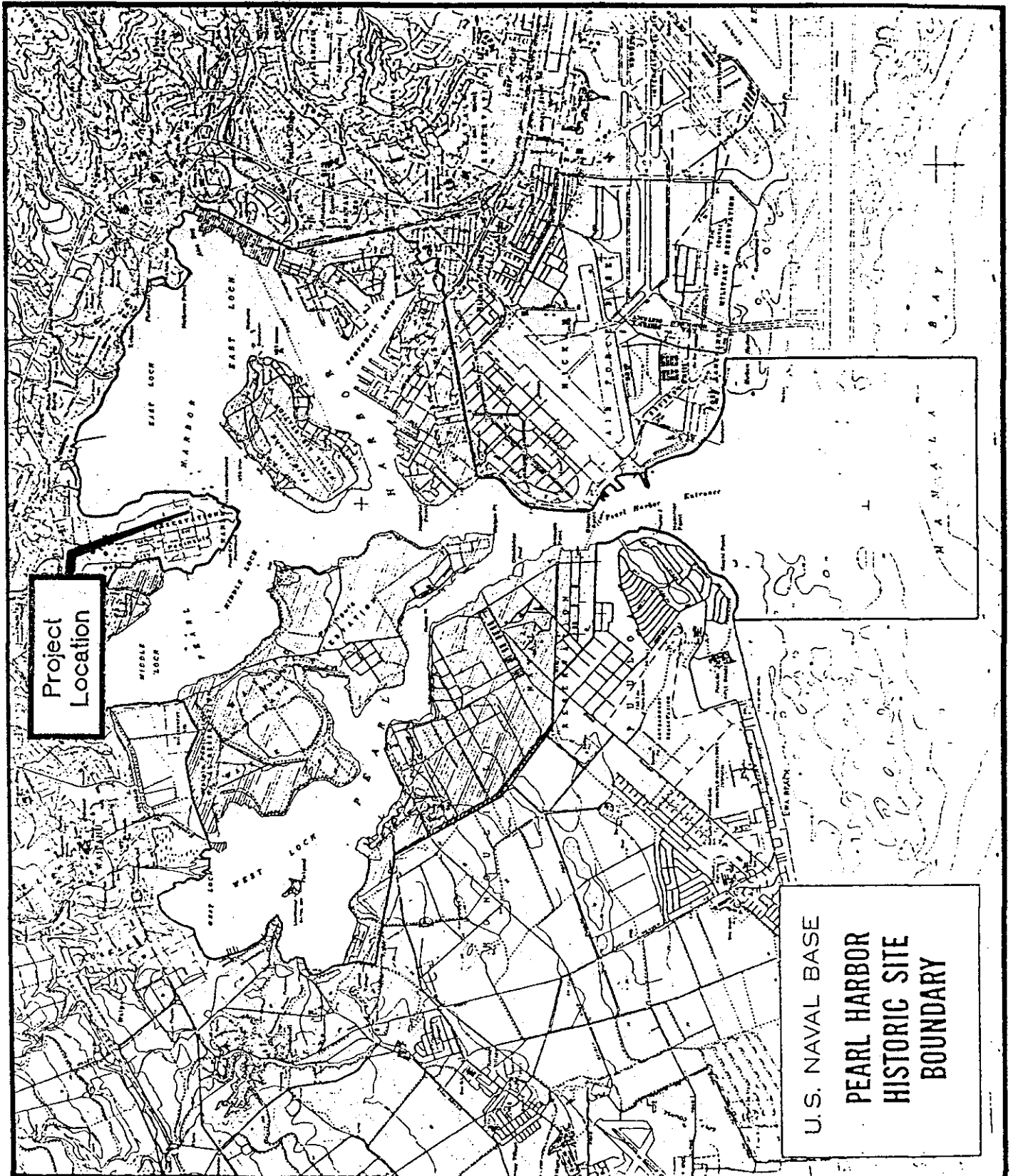
Pacific Division Drawing No. OA-N24-1409 dated 1/25/44

Pacific Division Drawing No. OA-N24-1710 dated 1/25/44

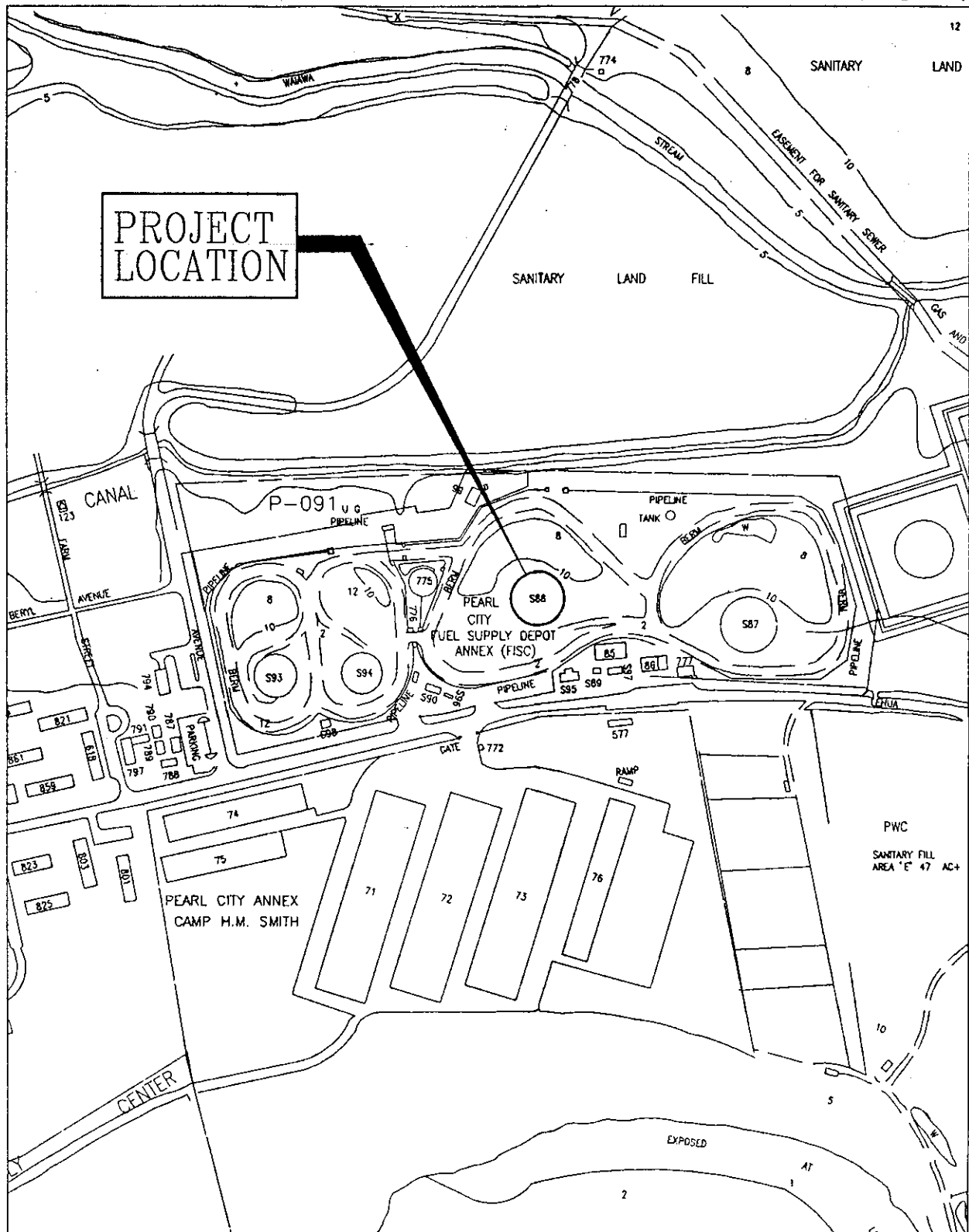
Pacific Division Drawing No. OA-N24-1746

Pacific Division Drawing No. 987426

U.S. Naval Base, Pearl Harbor, Jet Engine Fuel Storage Tank
(U.S. Naval Base, Pearl Harbor, Fleet and Industrial Supply Center)
(Pearl City Fuel Annex, Tank No. 3, Structure No. S88)
HAER No. HI-30 (Page 4)



U.S. Naval Base, Pearl Harbor, Jet Engine Fuel Storage Tank
(U.S. Naval Base, Pearl Harbor, Fleet and Industrial Supply Center)
(Tank No. 3, Structure No. S88)
HAER No. HI-30 (Page 5)



VICINITY MAP

SCALE: 1" = 400'

